X

PROGRESS REPORT

FOREST ADMINISTRATION

IN

AJMERE-MERWARA

FOR

1891-92.

1893

No. 825 F., dated Calcutta, the 11th March 1893.

FILE No. 103.
SERIAL No. 1.

From—SIR E. C. BUCK, KT., C.S.I., *Secretary to the Government of India,*

To—*The Chief Commissioner of Ajmere.*

I AM directed to acknowledge the receipt of your letter No. 3032 S., dated the 24th September last, forwarding the Report on Forest Administration in Ajmere and Merwara for the year 1891-92, together with the Commissioner's review and your own orders thereon.

2. Apart from the opening of almost all the reserves to grazing, which was occasioned by the exceptional dryness of the year, the administration of the forests presented no unusual features. The area of the reserves, *viz.* 139 square miles, remained practically unaltered. There was no additional extension of village forests, a subject which is receiving special attention with reference to Regulation I of 1892. The total cultivated area within the State forests has been ascertained to amount to 672 acres, and the efficient demarcation of these plots will doubtless be secured in connection with the record-of-rights now under consideration. A preliminary report was drawn up during the year in view to the preparation of a working-plan for the forests; and, as intimated in the communication from this Department cited in the margin, a trained Forest Officer has been deputed from Berar to aid the Extra-Assistant Conservator in this work during the last three months of the current year. The number of prosecutions for forest offences increased from 62 in the previous year to 86, but no explanation of this increase has been offered. The number of offences compounded declined from 177 to 53, owing to the leniency shown to the people in consequence of the scarcity which prevailed. That no fires took place was probably due to the comparative absence of grass. The expenditure on protection of this kind (R45 over an area of 139 square miles) is nominal, and can only represent the cost of indirect preventive measures.

No. 1536 F., dated 24th December 1892.

3. Owing to the dry season, practically the whole of the reserved area was opened to grazing during the last quarter of the year; but the report does not sufficiently indicate to what extent grazing was, if at all, admitted during other months, and this important question should be treated in greater detail in future reports. The number of animals admitted to graze was 48,000 (or 82 per cent. in excess of the number admitted in 1890-91), the available acreage per head being 1·85. The quantity of cut fodder removed was slightly increased as compared with the previous year, but was still far less than that removed in 1889-90. The Government of India learn with satisfaction that the fodder resources of the forests proved of much benefit to, and were duly appreciated by, the people.

4. The quantity of timber, fuel, and minor produce removed from the forests was, under all heads, in excess of that removed in the previous year; while the financial results were—Receipts R19,799, Charges R13,986, the Surplus of R5,813 being more than double that of 1890-91.

5. In conclusion I am to say that the Government of India agree with you in considering the year's results to have been satisfactory. His Excellency in Council is glad to observe the continued commendation bestowed on the local Forest Officer, Sirdar Hira Singh.

No. 326 F.

COPY, with copy of the Report, forwarded to the Government of the North-Western Provinces and Oudh for communication to the Conservator of Forests, School Circle.

No. 327 F.

COPY, with copy of the Report, forwarded to the Foreign Department for information.

Appendix showing the discrepancies noticed in the Ajmere Forest Administration Report for 1891-92.

Para. 1 of Report

and

FORM No. 49.

(*Area of Reserved Forests.*)

The equivalent in square miles of the 89,228 acres (area on 31st March 1892) is 139, not 140—*vide* section 268 of the Forest Department Code.

Para. 43 of Report.

According to the figures given in Appendix E, well No. 1 in the Mohwabir Reserve contained, in 1891-92, 15·98 feet *more*, not *less*, water than in 1890-91.

FORM No. 58.

(*Summary of Revenue and Expenditure.*)

In this Form fractions of rupees should have been treated as indicated in section 268 of the Forest Department Code.

Government of India Central Printing Office—No. 939 E. & A.—17-3 93—175—E. N. D.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN AJMERE-MERWARA, 1891-92.

No. 3032 S., dated Mount Abu, the 24th September 1892.

From—The Secretary to the Agents to the Governor-General and Chief Commr., Rajputana and Central India, Public Works Dept.,

To—The Secretary to the Government of India, Revenue and Agricultural Dept.

I AM directed by the Chief Commissioner of Ajmere-Merwara to submit herewith the Annual Report of Forest Administration in Ajmere-Merwara for the year 1891-92, accompanied by a copy of the Chief Commissioner's Resolution thereon.

Extract from the Proceedings of the Chief Commissioner of Ajmere-Merwara in the Public Works Department,—No. 3031 S., dated Mount Abu, the 24th September 1892.

READ—

The Annual Progress Report of Forest Administration in Ajmere-Merwara for the year 1891-92, by Sirdar Hira Singh, Extra Assistant Conservator of Forests, with a review thereon by the Commissioner of Ajmere-Merwara, received under cover of letter No. 139F., dated 9th September 1892, from the Commissioner, Ajmere-Merwara.

RESOLUTION.

1. The report has not been punctually submitted as ordered by the Government of India. This, it is understood, was due to pressure of work on account of famine relief operations.

Area—State Reserves.

2. The areas controlled by the Forest Department in Ajmere and Merwara were reduced by 146 acres during the year. The total now comprises 89,228 acres. The above decrease is explained by the fact that, although 852 acres were added to the State Reserves, 998 acres were excluded, 151 by transfer and 847 being lost by a more accurate measurement of areas.

3. The exact area of the Forest Reserves after deducting patches under cultivation and culturable within the reserves which comprise 672 acres, is reported at the end of 1891 to be 88,556 acres. The record of forest rights is stated to have been completed and is under consideration of the Commissioner.

Village Reserves.

4. There has been no change in the area (5,305 acres) of Village Reserves in year under review, but the Commissioner reports that the importance of this subject has not been lost sight of; and that proposals for reserving some 6,000 acres of village waste-land in the neighbourhood of Rajgurh are under his consideration. It is hoped that during the coming year he and the Assistant Commissioner will be able to show satisfactory advance under this head.

5. The Regulation No. I of 1892 for affording Government aid in the preservation of wood-lands and grazing grounds not being State forests in

Ajmere-Merwara was passed into law at the close of the official year. It came nto operation from 1st April 1892. The results of this measure, which is expected to assist materially in promoting an important branch of forest work, will be noticed in future reports.

Boundary Pillars and Boundary Cutting.

6. The suitable maintenance of boundary pillars called for no expense in the year, while boundary cuttings, 30 feet in width, were carried out in the Todgurh and Silebri Forest Reserves at an expenditure of R318, which was useful as a small measure of famine relief. The cost per mile was R13 as compared with R27 in the preceding year. A breadth of 30 feet was simultaneously cleared by the Marwar State within its limits.

Surveys and annual plan of operations.

7. Part of the boundaries of Sheopura, Auspahar, Amner, and Todgurh were surveyed, the omissions of pillars supplied, and erroneous boundaries checked and corrected. A survey of the Jalia and Bulad lands taken up by the Forest Department was also made. The Forest operations are said to have been carried out according to a preconcerted plan in consultation with the local officers. But though 370 acres were marked out to be cleared, 310 remained untouched owing to slackness of demand in the local market.

Working-Plans.

8. The preliminary report for submission to the Inspector General of Forests for his advice has been prepared and is under consideration of the Commissioner.

In this connection the Government of India is arranging to depute to Ajmere a trained officer for three months during this year.

Breaches of Forest Rules.

9. There were 139 against 239 offences in the preceding year. Of the 139 cases 86 were tried by Magistrates and 53 were compounded by the Forest Officer under the Forest Regulation. In only three of the cases tried did the Department fail to secure a conviction. The most common offence was unauthorised felling.

Cattle trespass.

10. The number of cattle impounded was 445 more than in the previous year, the increase being mainly in the number of sheep and goats. The receipts from pound-fees were R484, or less than the preceding year by R24.

Fire Conservancy.

11. It is satisfactory to note that no fires occurred this year also in any of the Forest Reserves. The cost of fire protection was ·16 pies per acre, or the same as last year.

Grazing.

12. The continued drought and consequent diminution of fodder necessitated the opening of nearly all the reserves for grazing after 1st January 1892; the concession was necessary, as the circumstances of the year under review were altogether abnormal. At the same time the policy of the Government of India, in regard to grazing, conveyed in their orders No. 279 F. of 24th February 1892, will not be lost sight of.

13. Forty-seven thousand nine hundred and eighty-nine head of cattle were admitted for grazing against 26,359 in last year. Of this number 45,248 belonged to right-holders, 2,411 to outsiders, and 330 grazed free. The concession was appreciated and tended much to the alleviation of local distress and preservation of cattle.

Natural Reproduction.

14. The results under this head were again unsuccessful owing to drought.

Artificial Reproduction.

15. The following shows the result of operations under this head :—

	Acres.	Failures.	Net addition.
Sowing	76	62	14
Planting	34	...	34
TOTAL	110	62	48

The failure of the sowings is to be regretted. The total expenditure under these heads was R1,720 against R929 in the preceding year. In the year's expenditure there is an item of R500 spent on account of making a masonry weir in the Mohabir Reserve for storing water and increasing the supply in wells.

Meteorological Observations.

16. The rainfall registered by the Forest Department at different registering stations averaged nearly 8⅓ inches during the year, which is stated to be not even half the average of the ordinary years, and is the lowest recorded since observations were taken by the Department.

Outturn.

17. The outturn of forest produce, including the estimated value of free grants as during the past two years is compared below :—

Agency by which removed.	Timber.	Fuel.	Bamboos.	Minor produce.
	Cubic feet.	Cubic feet.	No.	R
Government	...	...	...	...
Purchasers	5,110	118,698	* 8,133	7,641
Free grants	2,192	72,400	...	41,866
Right-holders	...	...	...	7,945
Total, 1891-92	7,302	191,098	8,133	57,452
„ 1890-91	3,666	187,027	2,931	30,946
Difference	+3,636	+4,066	+5,202	+26,506

* Value R209.

There was an increase under all heads. Free grants of fuel to the extent of 72,400 cubic feet were made to persons in need of help.

Financial Results.

18. The financial results of the last two years are compared below:—

Years.	Receipts.	Charges.	Surplus or deficit.
1891-92	19,799	13,986	+5,813
1890-91	15,266	12,720	+2,546
Difference, 1891-92 .	+4,533	+1,266	+3,267

It will be seen that the surplus of the year under review exceeded that of the previous year by R3,267. The increase was mainly due to grazing grass, and other minor produce. The Commissioner observes that if the estimated value of the free grants (R42,455) were taken into account, the receipts of the Department would be greatly enhanced. This is no doubt true.

General Remarks.

19. A scanty rainfall and practical failure of the ordinary fodder supply brought home to the people in a marked degree the advantages of forest conservancy. But for the reserves the mortality among cattle would have been still greater than it was.

20. To Maharajahs of Jeypore, Ulwur, and Bhurtpore, who generously contributed several thousand maunds of grass free of cost to the district, the thanks of the Agent to the Governor General are due. The Ulwur candidate returned to Ulwur in October 1891 after completing the course of practical training in the Ajmere-Merwara Forests.

21. Under the reorganization scheme of the India Forest Service sanctioned in Circular No. 18 F. of July 1891, the designation of the Sub-Assstant Conservator of Forests was altered to that of Extra Assistant Conservator of Forests.

22. The proposed reorganization of the subordinate Protective staff is still under consideration of Government.

23. Considering the unusual difficulties of an unfavourable season, the year's report is on the whole satisfactory, and the Chief Commissioner cordially concurs in the encomium passed by the Commissioner, Ajmere-Merwara, on Sirdar Hira Sing, the Extra Assistant Conservator, for his good and economic management.

ORDERS.

ORDERED, that a copy of this Resolution, together with the Commissioner's review and the original report, with statements, be forwarded to the Government of India in the Revenue and Agricultural Department under cover of a separate letter.

Ordered also, that a copy of the above Resolution be forwarded to the Commissioner, Ajmere-Merwara, for information and guidance and communication to the Extra Assistant Conservator of Forests.

Review of the Progress Report of Forest Administration in Ajmere-Merwara for 1891-92.

AREA.

State Reserves.

1. The area of the Reserved State Forests was reduced by 146 acres during the year under report, and now comprises 89,228 acres (140 square miles). The decrease is due to the fact that, while 852 acres were added to the State Reserves, 998 acres were excluded, 151 acres by transfer to Rajosi Village Reserve, and 847 acres being lost by a more accurate measurement of areas.

In the first paragraph of the Chief Commissioner's Resolution on the Report for 1890-91, it was desired that the exact area of the Forest Reserves should be shown in the Report for 1891-92. The required details have since been received from the Revenue Department. It appears that the total area of the patches under cultivation and cultivable within the reserves amounts to 672 acres. If this be deducted, the total must be reduced still further to 88,556 acres. These figures may be taken as representing the exact area at the close of 1891-92, and they will be adopted for the purposes of the next report. The record of forest rights has also been completed, and is under consideration pending submission to the Chief Commissioner.*

Village Reserves.

2. No new Village Reserve was formed during the year under report, nor was the area (5,305 acres) of the existing reserves increased. The importance of this subject, which the Government of India emphasized in commenting upon last year's report, has not been overlooked, and proposals for reserving about 6,000 acres of village waste-land, especially in the neighbourhood of Rajgarh, have been submitted and are still under consideration.

The "Ajmere-Merwara Private Forest Regulation" of 1892 was received after the close of the year and came into force from the 1st April 1892. It will materially assist in promoting this most important branch of Forest work in Ajmere-Merwara.

Areas other than those already referred to remained unchanged during the year under report.

BOUNDARIES.

Boundary Pillars.

3. No expenditure was incurred on boundary pillars during the year under report. They were suitably maintained free of cost.

Boundary cutting.

4. Rupees 318 were expended on cutting lengths, measuring 24 miles, of boundaries 30 feet wide in the Todgurh and Sileberi Forest Reserves. As was the case in 1890-91, a breadth of 30 feet was simultaneously cleared by the Marwar Forest Department within the limits of their jurisdiction. The work of cutting these boundaries provided employment for 2,537 people in the district, and was a most useful famine relief work. The cost was only R13 a mile as compared with R27 a mile in the previous year.

Surveys.

5. Part of the boundaries of the Forest Reserves noted on the margin were surveyed, and the omissions of pillars were supplied, and erroneous boundaries checked and

1. Sheopura. 2. Auspahar. | 3. Amner. 4. Todgurh.

corrected. The Jalia and Bulad lands taken up in the previous year were also surveyed.

Working-Plans.

6. The preliminary report on the Working-plan to be submitted to the Inspector General of Forests (Government of India Circular No. 9F., dated the 14th May 1889, and remarks in paragraph 3 of their letter No. 279 F., dated 24th February 1892), has been prepared, and is under consideration.

Annual Plans of Operations.

7. The plans of operations which were drawn up in consultation with the local officers were successfully carried out. But a large proportion of the area marked to be cleared remained unfilled, owing to the slackness in the demand of the local market.

Forest Offences.

8. The number of "Forest offences" fell from 239 in 1890-91 to 139 in the year under review. Eighty-six cases as against 62 were tried by Magistrates; and 53 as against 177 were compounded by the Forest Officer under the provisions of the Forest Regulation. In every case, except three, a conviction was obtained. Unauthorized felling was the most common offence.

Forest Rules.

9. Owing to the prevailing scarcity the Forest Rules were to a certain extent relaxed in favour of the villagers.

Cattle-trespass.

10. The number of cattle impounded was 5,442 or 445 more than in the preceding year; the increase was chiefly in the number of sheep and goats impounded during the year under report. At the same time the total receipts from pound fees fell from R508 to R484.

Fire Conservancy.

11. It is satisfactory to note that no fires occurred during the year under report. Of 89,228 acres, the total area of the Reserved Forests, 37,077 acres were protected from fire without the adoption of special measures. The cost of fire-protection amounted to R45, or ·16 pies per acre, which is the same as last year.

Grazing.

12. The scanty rainfall in 1890, and the consequent diminution of fodder, made it necessary to throw open nearly all the reserves to grazing after the 1st January 1892. The number of cattle admitted for grazing was 47,989 as against 26,359 last year. Of this number 45,248 head of cattle belonged to right-holders, and 2,741 to outsiders. The concession was appreciated, and no doubt tended much to the alleviation of local distress and the salvation of the cattle. The policy and wishes of the Government of India in regard to grazing, as described in the 5th paragraph of their letter of the 24th February 1892, will be borne in mind. But the circumstances of the year under review were altogether abnormal.

Natural Reproduction.

13. The rainfall was so short that all the self-sown seedlings that germinated in July with the first fall died away.

Artificial Reproduction.

14. The following is the result of the cultural operations which extended over 110 acres as against 98 in 1890-91 :—

	Acres.	Struck off as failure.	Net addition.
Sowing	76	62	14
Planting	34	...	34
TOTAL	110	62	48

The total expenditure incurred on these operations amounted to R1,720 as against R929 in the previous year.

Roads and Buildings.

15. The total cost under this head was R504 as shown below :—

	R
(*a*) Roads	124
(*b*) Buildings	79
(*c*) Other works	301
TOTAL	504

Roads.

Two new inspection paths were made in the Nagpahar Forest Reserve, and repairs to the paths in the Todgurh Reserve were executed. These works gave employment and relief to nearly 800 people.

Buildings.

16. Chowkis for the Forest Guards at Danta, Derra, and Sirmaw were constructed at a total cost of R75, and R4-5 were spent on repairing the Mohwa Bir Forest Chowki.

Other works.

17. Rupees 301 spent under this sub-head include—

	R
Pay of 2 Meteorological Reporters	237
Wire-fencing	48
Repairs to cages	14
Cloth, etc.	2
TOTAL	301

METEOROLOGICAL OBSERVATIONS AND OTHER EXPERIMENTS.

Rainfall.

18. The Extra-Assistant Conservator of Forests reports that the rainfall registered during the year was not even half the average of ordinary years, and was the lowest recorded since the experiments have been undertaken: only one of the experimental wells contained any water.

Outturn.

19. Seven thousand three hundred and two cubic feet of timber, 1,91,098 cubic feet of fuel, and other produce to the value of R57,452, were removed from the forests. Under each of these three heads there was a marked improvement as compared with 1890-91.

Free grants.

20. The following statement gives details of the free grants made to right-holders :—

	Cubic feet.	Estimated value.
		R
Timber for household and agricultural purposes .	2,192	120 0 0
Minor produce—		
(*a*) Dry wood for fuel	...	41,941 0 0
(*b*) Grass		
(*c*) Grazing		
TOTAL .	2,192	42,061 0 0

The money value of these grants in the preceding year was R22,118. The fuel grants were a boon to the people in the hard times that prevailed.

FINANCIAL RESULTS.

Receipts and Charges.

21. The following table compares the receipts and charges for the last two years :—

	1890-91.	1891-92.	Difference.
	R	R	R
Receipts	15,266	19,799	+4,533
Expenditure	12,720	13,986	—12,66
Surplus .	+2,546	+5,813	+3,267

It will be seen that the surplus of the preceding year was more than doubled in the year under review, the increase in receipts occurring chiefly under the heads of "Grazing and grass" and "Other minor produce."

The financial position of the Department continues to show a steady improvement, due as much to economical management as to increased receipts. The latter would be much enhanced if the estimated value of the free grants (R42,455) were taken into the account.

General Remarks.

22. The year 1891 was exceptionally dry. The ordinary supplies of fodder practically failed, and had it not been for the forest grazing the mortality among cattle would have been even far higher than the figures actually recorded. The cutting of grass was first allowed for a period of one month and ten days for plough bullocks, after which grazing was permitted. The importance of having this resource to fall back upon in time of need is said to be generally appreciated.

The Maharajas of Jaipur and Alwar and Bhartpur generously contributed several thousand maunds of grass free of cost to the district.

An interesting experiment of pressing grass by screw machines was made under the superintendence of the local Railway officers. The grass was pressed into bales containing 1^1 maund each and measuring $3' \times 2' \times 2'$.

The Alwar candidate, Babu Ram Chand, returned to Alwar in October 1891, after finishing the term of his practical training in the forests of Ajmere-Merwara.

Having regard to the unusual difficulties created by the unfavourable nature of the season, the report for the year may be considered as not unsatisfactory.

The Extra Assistant Conservator, Sardar Hira Singh, whose exertions the Government of India have lately rewarded, laboured energetically to make the administration of his department successful, and the fact that notwithstanding all obstacles he was able not only to maintain but to increase the surplus of the preceding year, is creditable to him and his staff.

CHAPTER I.

AREA AND BOUNDARIES.

(1)—*Area.*

State Reserves.

1. The total area of the Reserved State Forests at the close of the year stood at 89,228 acres, or 140 square miles, showing a decrease of 146 acres.

2. The decrease was due to the following changes:—

Added—

	Acres.
Transferred from Danta Reserve	151
Measurement of forest areas not shown in the maps—120 acres in Sheopura and 357 in Auspahar	477
Revision of areas—	
Amner 199 acres	224
Todgurh 25 „	
Total area added	852

Excluded—

Transferred to Rajosi Reserve	151
Revision of areas—	
Siliberi . 3 acres	847
Sheopura 105 „	
Amner . 739 „	
Total area excluded	998

3. Complete information as regards cultivated land in forest is now available. The total area under cultivation amounts to 672 acres which, if deducted, would reduce the area of Reserved Forests to 88,556 acres. The figures will be adopted in the next year's report, by which time, it is hoped, the record of forest rights already submitted to the Conservator will have received the sanction of the Government of India.

Village Reserves.

4. No new Village Reserves were formed during the year. Proposals for reserving about 6,000 acres of village waste-land were submitted to the Collector, Ajmere, and are under consideration.

"Ajmere-Merwara Private Forests Regulation, 1892."

5. A Regulation for affording the aid of Government in the preservation of wood-lands and grazing grounds not being State Forests in Ajmere-Merwara received the assent of the Governor General in Council and will be brought into force from 1st April 1892.

Other areas.

6. There was no alteration in the areas taken up for plantation purposes.

(2) *Boundaries.*

Boundary pillars.

7. The boundary pillars in all the reserves were maintained, and no expenditure was incurred on that account.

Boundary cutting.

8. The work of boundary cutting along the Marwar frontier was resumed, and the following lengths were cut in the Todgarh and Siliberi Reserves :—

Forest.	Width.	Length cut.		Expenditure.	Remarks.
		Miles.	Chains (66 ft.)		
	ft.			R	
Todgarh . . .	30	21	50	285	A breadth of 30 feet was simultaneously cleared by the Marwar State.
Siliberi . . .	30	2	69	33	
Total . .		24	39	318 or R13	per mile against R27 per mile last year.

This work provided employment to 2,537 poor people, and was very useful as a famine relief work.

CHAPTER II.

Surveys, Working-Plans, and Annual Plans of Operations.

(*i*).—*Surveys.*

9. The boundaries of the Sheopura, Auspahar, Amner, and Todgarh Reserves, all in Merwara, were surveyed in places, and the omissions of pillars were supplied in the 4-inch forest maps. Boundaries erroneously entered on some of the maps were also checked and rectified.

Two new tracts of land, Jalia and Balad, taken up last year were surveyed and plotted on scale 4″=1 mile.

(*ii*).—*Working-Plans.*

10. As per orders contained in the Government of India Circular No. 9F. of the 4th May 1889, a preliminary report on the subject is in the course of preparation, and will soon be submitted for the orders of the Inspector General of Forests.

(*iii*).—*Annual Plans of Operations.*

11. As usual, plans of operations were drawn up in consultation with the Assistant Commissioners of Ajmere and Merwara and approved by the Commissioner and Conservator of Forests, Ajmere.

Out of 370 acres prescribed to be cleared, 310 acres remained unfelled owing to the slackness of demand in the local markets. With this exception, the works proposed were carried out during the year.

CHAPTER III.

Protection and Improvement.

1.—Establishment.

12. The charge of the division was held by Sirdar Hira Singh, Extra Assistant Conservator of Forests.

Subordinate Staff.

13. The present staff consists of—

				Cost per mensem.
		R		R
Executive	1 Forest Ranger at	80		80
Protective	1 Forester at	19		19
	4 Foresters at	10	each	40
	1 Forester at	9		9
	6 Guards at	8	each	48
	10 „ „	7	„	70
	23 „ „	6	„	138
	1 Mohurrir for collecting grazing dues, Dewair Pass	...		7
	TOTAL .			411

Proposals for strengthening the existing staff, which is inadequate for the efficient management of the forests, and for improving their pay and prospects, were forwarded in accordance with Government of India Circular No. 2 F. of 28th January 1891. This would involve an extra outlay of R119 per mensem, or R1,428 per annum, which is amply warranted by the improved finances of the Ajmere-Merwara Forests.

Executive Establishment.

14. Babu Nand Mal, Forest Ranger, in charge of the Todgarh Range, has done good service. His local knowledge and valuable experience of these forests has been particularly useful in revising the record of forest rights.

Protective Establishment.

15. Foresters and Guards have all behaved well.

Office Establishment.

16. Among the members of the Office Establishment, I would specially mention the case of Babu Ausaf Ali, Forest Clerk. He has worked hard with the increasing work of the department, and is deserving of promotion. Office Munshi Lala Ram Narain has given entire satisfaction and was promoted from R25 to R30, which is the maximum pay of his appointment.

2.—*General Protection and Breaches of Forest Rules.*

Cases tried by Magistrates.

17. The following statement compares the number and nature of offences tried by Magistrates during the two years:—

Nature of offence.	Number.		Increase + or Decrease −
	1890-91.	1891-92.	
Injury to forests by fire	...	1	+1
Unauthorised felling, etc.	57	76	+19
Illicit grazing	5	6	+1
Other offences	...	3	+3
TOTAL .	62	86	+24
Convictions .	61	83	...

"Other offences" were—

Illicit cultivation	2
Quarrying stones	1
TOTAL	3

Cases compounded.

18. The result of cases compounded by the Forest Officer under the Ajmere Forest Regulation, is given below :—

Year.	CASES COMPOUNDED.		AVERAGE COMPENSATION	
	Number.	Amount of compensation.	Per case.	Per man.
		R	R a. p.	R a. p.
1890-91	177	460	2 9 7	1 6 6
1891-92	53	97	1 13 3	0 9 4
Difference	−124	−363	−0 12 4	−0 13 2

19. The total number of forest offences taken into Court, as well as those compounded, was 139 against 239, or 100 less than the previous year.

20. Forest rules were considerably relaxed in favour of villagers in view of the prevailing scarcity. In those cases which were of a very trivial nature, the mere confiscation of forest produce and the time and trouble taken by offenders to secure it was alone considered an adequate punishment, and no further notice was taken.

Cases challaned under other Acts.

21. (*a*) *Under the Indian Penal Code.*—Six persons were challaned through the Police Department for cutting bamboos. Of these four were each sentenced to fifteen days' simple imprisonment, and two were fined R5 each.

22. (*b*) *Under Section 24 of the Cattle Trespass Act.*—Fourteen persons were prosecuted for releasing cattle and were fined in all R38.

Cattle trespass.

23. The following statement compares the number of cattle impounded for trespass during the two years :—

Year.	NUMBER OF CATTLE.			TOTAL.	Pound receipts.
	Cows and buffaloes.	Goats and sheep.	Others.		
					R
1891-92	3,377	1,992	73	5,442	484
1890-91	3,207	1,618	172	4,997	508
Difference	+170	+374	−99	+445	−24

The increase was chiefly in the number of goats and sheep impounded during the year. There was consequently a decrease of R24 in the pound receipts.

3.—Forest Fires.

24. No fires took place during the year.

25. The results of fire-conservancy for the two years may be thus compared—

		Dry season of 1891.	Dry season of 1892.	Difference.
		Acres.	Acres.	Acres.
Area actually protected.	(1) By special measures . .	79,486	52,151	—27,335
	(2) By ordinary establishment .	9,888	37,077	+27,189
Area burnt		*Nil*	*Nil*	...
Total area attempted to be protected		89,374	89,228	—146*

* Decrease due to certain alterations in the areas of the Reserved Forests, *vide* paragraph 2 of this Report.

26. The total cost of fire protection was R45 or ·16 pies per acre, the same as last year.

27. Two persons were prosecuted for lighting fire for the purpose of smoking in the Dewair Forest Reserve, and were fined R5 each.

4.—Grazing and Fencing.

Grazing.

28. Owing to the paucity of rains in 1890 and the consequent scarcity of fodder nearly all the reserves were thrown open to grazing from 1st January 1892.

The following statement shows the number of cattle admitted for grazing:—

District.	Area closed to grazing.	Area open to grazing.	Number of cattle.			Total.	Acreage per head.
			Right-holders.	Out-siders.	Free.		
	Acres.	Acres.				Cattle.	
Ajmere . .	...	17,670	17,501	777	330*	18,608	·95
Merwara . .	331	71,227	27,747	1,634	...	29,381	2 42
Total .	331	88,897	45,248	2,411	330	47,989	1·85
Last year .	...	89,264	24,159	1,870	330	26,359	3·39
Difference .	+331	−367	+21,089	+541	...	+21,630	−1·54

* Cattle of Mayapur, Naharpura, and Kothaj villages in the Rajgarh Reserve.

29. Free grazing was also allowed in the following reserves:—

Period.	Name of Reserve.	Area.	Number of cattle.	Remarks.
		Acres.		
For 8 months, (*i.e.*) 1st November to end of June.	Srinagar . .	817	...	Cattle of Srinagar village.
	Amner . .	199	...	„ of Ajeetgarh and Amner villages.
For 12 months .	Todgarh . .	1,100	783	Cattle of hamlets situated within forest limits.
	Banjari-Mandlan	200	70	
	Beliawas . .	130	42	
	Sheopura . .	60	20	
	Total .	2,506	...	

30. (*a*) *New.*—A trench, 3 feet broad at the top, 1 foot broad at the bottom, and 2 feet deep, was made round three miles of the Makerwali-Hokran Reserve. The expenditure amounted to R92-3.

Fencing.

(*b*) *Repairs.*—Eight thousand five hundred and forty running feet of euphorbia fence were repaired in the Mohwabir Reserve at a cost of R33-4-6.

31. All other fences were repaired by Guards, and so nothing was spent on that account.

5.—*Natural Reproduction.*

32. As stated elsewhere, the rainfall during the year was extremely poor, being not even half the normal. The self-sown seedlings that germinated with the first fall in July all died off for want of continued moisture.

6.—*Artificial Reproduction.*

33. Cultural operations extended over 110 acres with the following results:—

	Acres.	Struck off as failures. Acres.	Net addition during the year. Acres.
Sowing	76	62	14
Planting	34	...	34
TOTAL	110	62	48

34. The details of these operations are given below:—

Sowings.

Forest.	Species sown.	Area sown in acres.	Method of sowing.	Distance apart.	Success.
				Feet.	
Makerwali-Hokran	Khair, khejra, babul and ber	15	In patches	10	20 per cent.
Danta	Khair, khejra, babul	5	Broadcast	...	20 ditto
Jalia	Nim	2	Broadcast	...	*Nil.*
Borwar-Kotra	Babul, aringa, nim and khair	43	In patches	5	10 per cent.
Todgarh	Mohwa, mango, shisham and kachnar	2	Ditto	10	*Nil.*
Dewair	Nim, babul	4	Ditto	10	*Nil.*
Amner	Ditto	2	Broadcast	...	*Nil.*
Bangari-Mandlan	Rohira, bahera, shisham, mango, mohwa	3	In patches	10	*Nil.*
	TOTAL	76			

Planting.

Forest.	From which Nursery planted.	Species.	Number of plants.	Method of planting.	Distance apart.	Number of plants alive.
					Feet.	
Makerwali-Hokran	Pushker	170 Shisham, 30 Rohira, 30 Mangos and 20 Jaman.	250	In pits	30	250
Nagpahar	Nursery	35 Shisham and 105 Mangos	150	,,	30	150
Danta	Nursery	100 Shisham, 20 Nim, 70 Bar	250	,,	15	226
Srinagar	Bir Nursery	70 Shisham, 17 Jaman	87	,,	20	66
Jalia	Pushker	75 Shisham, 40 Bamboos	115	,,	20	100
Balad	Nursery	35 Shisham, 20 Bamboos	55	,,	20	50
Chang	Sendra	Cheril, Bar, Nim and Shisham	212	,,	20	196
Borwar	Nursery	Ditto ditto ditto	200	,,	20	187
Banjari-Mandlan	From forest	100 cuttings of Saler, Gol and Gadichora.	100	In holes	10	*Nil.*
		TOTAL	1,419			1,225

35. The cost of sowing and planting, including the maintenance of nurseries, amounted to R1,720 against R929 in the previous year. This amount includes R500, spent on making a rapal across a stream in the Mohwabir Reserve to retain rain-water, which otherwise flows off and thereby increase the water-level in the wells below. The old nursery at Mohwabagh, abandoned for want of water, will be utilized again for nursery purposes, being situated in the centre of the Ajmere forests.

7.—Nurseries.

36. The nurseries at Pushker, Bir, and Sendra were maintained as usual, and contain the following number of plants of different kinds fit for transplanting during the rains :—

Pushker Nursery	3,000
Bir Nursery	500
Sendra	600
TOTAL	4,100

8.—Communications and Buildings.

37. The total cost under this head was—

	R
(*a*) Roads	124
(*b*) Buildings	79
(*c*) Other works	301
TOTAL	504

38. *Roads.* (*i*) *New.*—Two new inspection paths, 2 miles in length, were made in the Nagpahar Reserve, at a cost of R75; one to connect Pushker Nursery with the Ajmere-Pushker road and another up the western slope of the hills to meet the path from the Ajmere side.

(*ii*) *Repairs.*—Repairs to inspection paths in the Todgarh Reserve were made at a total cost of R49.

Both these works gave employment to 781 people.

39. *Buildings.*—The following chowkis were made for Forest Guards :—

	R	
Danta	35	
Derra	20	in the Amner Reserve.
Sirman	20	in the Todgarh Reserve.
TOTAL	75	

Rupees 4-5 were spent on repairing the Mohwabir Forest chowki.

40. *Other Works.*—Rupees 301 spent under this head include—

	R
Pay of 2 meteorological observers	237
Wire-fencing 12 rain-gauge stations	48
Repairs to cages	14
Cloth, thread, vinegar, etc.	2
TOTAL	301

CHAPTER IV.

METEOROLOGICAL OBSERVATIONS AND OTHER EXPERIMENTS.

Rainfall.

41. The rainfall registered during the year was not even half the average of the ordinary years, and is the lowest recorded since the experiments were undertaken. Appendix A compares the results for the past two years.

Temperature and Humidity.

42. Observations of temperature and humidity were continued as before under the control of the Meteorological Reporter to the Government of India. The results are entered in Appendices B, C, and D.

Water-level in Wells.

43. There was no water in the experimental wells, except well No. 1 (in the Mohwabir Reserve), which contained 15·98 feet less water than last year.

CHAPTER V.

YIELD AND WORKING.

Summary of Removals of Forest Produce.

44. The total outturn of the year in timber and fuel was 7,707 cubic feet more than that of the previous year.

Timber and Fuel (Form No. 54).

AGENCY BY WHICH REMOVED.	Timber.		Fuel.	
	1890-91.	1891-92.	1890-91.	1891-92.
	C. ft.	C. ft.	C. ft.	C. ft.
By Government	...	...	...	..
„ Purchasers	2,331	5,110	187,027	118,698
„ Free grantees	1,335	2,192	...	72,400
TOTAL	3,666	7,302	187,027	191,098

45. The following statement exhibits the comparative value of minor produce removed during the two years:—

Minor Produce (Form No. 55).

AGENCY OF EXPLOITATION.	Bamboos.		Grass and Grazing.		Other Minor Produce.		TOTAL.	
	1890-91.	1891-92.	1890-91.	1891-92.	1890-91.	1891-92.	1890-91.	1891-92.
	R	R	R	R	R	R	R	R
Purchasers	96	209	3,646	6,102	947	1,330	4,689	7,641
Free grantees	...	...	22,028	41,866	...	...	22,028	41,866
Right-holders	...	...	4,229	7,945	...	...	4,229	7,945
TOTAL	96	209	29,903	55,913	947	1,330	30,946	57,452

(i).—Departmental Operations.

46. No such operations were undertaken during the year

(*ii*).—*Removal of Produce by Purchasers.*

Timber.

47. Three thousand seven hundred and thirty-three dandas, 200 dingars, 191 saler trees, 12 kar trees, and 13 bundles of firangan and 26 miscellaneous pieces were sold from certain forests in Merwara. The amount realized was ₹186.

Fuel.

48. Eleven thousand and five hundred cubic feet of green and 107,198 cubic feet of dry firewood were sold for ₹2,888.

(*a*) *Green wood.*—Owing to the falling off of demand, green wood could be sold by auction from the following areas only :—

Forest.	Area cut in Acres.	Rate @	Rate Per	Quantity removed.	Amount realized.	Remarks.
		₹		C. ft.	₹	
Mohwabir	10	7	Acre.	1,500	70	
Nagpahar (Pokhar side)	30	10	„	6,000	300	
Ditto (Kotra side)	20	8	„	4,000	160	
Total	60	...	„	11,500	530	
Last year	290	...	„	93,012	3,325	

(*b*) *Dry wood.*—The following statement shows the quantity of dry wood removed during the year as compared with the preceding year :—

District.	By Permits. Head loads.	By Permits. Donkey loads.	By Auction.	Total Quantity.	Amount.
	No.	No.	C.ft.	C.ft.	₹
Ajmere	18,696	...	1,200	46,070	1,588
Merwara	22,180	1,039	...	61,128	770
Total	40,876	1,039	1,200	107,198	2,358
Last year	16,574	4,477	20,212	94,015	1,738

Bamboos.

49. Eight thousand one hundred and thirty-three bamboos were sold for ₹209. The following are the details :—

		No.	Total.	Value.
				₹
Ajmere	Nagpahar	1,908	2,034	87
	Taragarh	126		
Merwara	Beliawas	24	6,099	122
	Todgarh	4,975		
	Dewair	1,100		
	Total		8,133	209
	Last year		2,931	96

Grass and Grazing.

50. The revenue realized from these sources may be thus compared :—

Year.	Grass.	Grazing.	Total.	Remarks.
	₹	₹	₹	
1890-91	2,671	975	3,646	
1891-92	*4,975	1,127	6,102	* This amount includes ₹2,700 received from the Military Department for grass-supply in 1889-90.
Difference .	+2,304	+152	+2,456	

For full particulars, *vide* Form No. 55.

Other minor produce.

51. The revenue under this head, as compared with the past year, was :—

	1890-91.	1891-92.	Remarks.
	₹	₹	
Fruits	645	281*	* Failure of the mango crop in the Pushker Bagh.
Dhak leaves	191	272	In absence of grass, make excellent fodder for cattle.
Saler „	...	634	
Honey and wax . . .	107	68	
Babul pods . . .	...	70	
Miscellaneous . . .	4	5	
Total .	947	1,330	or ₹383 more than last year.

(iii).—Free Grants.

52. The following free-grants were made to right-holders in the Government Forest Reserves :—

Description of Produce.	Number or Quantity.	Estimated Value.		Remarks.
		1891-92.	1890-91.	
		₹	₹	
Timber for household purposes (c. ft.) .	2,177	118	82	
„ „ agricultural „ (c. ft.) .	15	2	8	
Drywood * for fuel (head loads) .	30,000	469	...	* To poor people in need of help, as per orders of the Conservator, dated 20th November 1891.
Grass and dry leaves for fodder (bundles)	323,840	40,480	21,011	
Grazing	...	992	1,017	
Total .	...	42,061	22,118	

Besides the above, 394 maunds of grass (value R394) were supplied to the detachments of the Erinpura and Deoli Sowars posted at Beawar and Ajmere during the grain disturbances.

Grass-cutting.

Grass-cutting and removal of dry leaves was permitted for one month and ten days, with effect from the 20th October. The value per bundle is estimated at two annas against one anna per bundle last year. Both these facts account for an increase in the number of grass bundles removed by free grants as well as in the value estimated in the above statement.

iv.—Removal of Produce by Right-holders.

53. Forty-five thousand two hundred and forty-eight cattle, cows, and buffaloes were permitted to graze for six months, from 1st January 1891 to end of June 1891. The revenue realized amounted to R7,945.

CHAPTER VI.

Financial results.

54. The following table compares the financial results of the year with those of the preceding five years:—

	1886-87.	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.
	R	R	R	R	R	R
Receipts . .	11,275	14,293	13,574	11,592	15,266	19,799
Charges . .	20,744	18,898	15,676	12,701	12,720	13,986
Deficit . .	9,469	4,605	2,102	1,109	...	...
Surplus . .	...	...	...	...	2,546	5,813

There is again a surplus of R5,813, which exceeds even that of the previous year by R3,267.

Receipts.

55. The gross receipts shew an increase of R4,533, which may be thus explained:—

Increase under—	R
II*a*.—Timber	114
II*c*.—Bamboos	113
II*d*.—Grass and Grazing	6,171
II*e*.—Other Minor Produce	383
V*c*.—Other sources	254
Miscellaneous	3
TOTAL INCREASE . .	7,038
Deduct Decrease under sub-heads . . .	2,505
NET INCREASE . .	4,533

If R42,455, the estimated value of free grants, be added, the revenue of the division would be R19,799 + R42,455 = R62,254.

Expenditure.

56. The total expenditure was R1,266 in excess of the previous year:—

	1890-91.	1891-92.	Increase.
	R	R	R
A.—Conservancy and Works	2,763	2,921	158
B.—Establishment	9,957	11,065	1,108
TOTAL .	12,720	13,986	1,266

The increase was chiefly in B.—Establishment, due to the increased pay and allowances to the Extra Assistant Conservator and to the grant of a special local allowance of R50 per mensem.

57. The receipts and charges under the main heads compare as follow for the past two years:—

Year.	I.—Timber and other Departmental Operations.		II.—Other Sources.		III.—Formation, Protection and Improvement of Forests.	Total	
	Receipts.	Charges.	Receipts.	Charges.		Receipts.	Charges.
	R	R	R	R	R	R	R
1890-91	...	...	15,266	3,983	8,737	15,266	12,720
1891-92	...	...	19,799	4,432	9,554	19,799	13,986

General Remarks.

The year 1891.

58. The year 1891 has been an exceptionally dry year, the total fall of rain being not even half the average of ordinary years.

The village waste-lands soon failed to afford sufficient pasture for cattle, and there was no remedy to meet the unexpected scarcity but to fall back upon the Government Forest Reserves. At first the cutting of grass (for plough bullocks) was allowed for one month and ten days, and 323,840 bundles of grass and dry leaves were removed. Grazing was then permitted, and with the exception of 331 acres (exclusively belonging to Government), all the reserves were thrown open. As many as 47,989 cattle were admitted against 26,359 cattle in the preceding year. The strain on the forest was heaviest, the acreage per head of cattle for six months being only 1·85 as compared with 3·39 in the past year. But this was unavoidable.

Owing to the failure of rains the grass crop was scanty, and after what was removed by villagers there was little left for grazing. But it was principally the dry fallen leaves from trees which have supported the cattle. Cattle of villages unaffected by the Government Forest Reserves had to be driven to distant parts of Meywar and Malwa, where alone pasture was said to be available. Many of these cattle are said to have already perished.

In the absence of forests few cattle would have survived and agriculture would have received a rude shock. The importance of having such reserves is now fully appreciated by all classes of people.

Offers of help from the Jeypore and Ulwar States.

59. To help the British Government in their difficulties to provide fodder for the district, their Highnesses the Maharajas of Ulwar and Jeypore generously offered to supply 5,000 and 10,000 maunds of grass respectively free of cost. The Extra Assistant Conservator of Forests was deputed to make suitable arrangements in this connection. The following quantities were despatched by him from Ulwar and Jeypore and issued to the Police sowars of Ajmere, the Deoli and Erinpura sowars posted in Ajmere and Merwara during the grain disturbances, and to the military troops marching through Ajmere:—

	Maunds.	Seers.
From Ulwar	622	0
„ Jeypore	526	22
Total .	1,148	22

The work was then given on contract to Seth Choga Lal of Nasirabad.

Grass-pressing experiments.

60. Screw machines for pressing grass were made under the superintendence of the local Railway officers. Grass was pressed into bales of 1½ maunds each, the bales being 3′×2′×2′. These experiments are interesting.

Return of Babu Ram Chand to Ulwar State.

61. Babu Ram Chand of Ulwar completed his practical training in the forests of Ajmere-Merwara and returned to that State in October 1891.

Form No. 49.

Area of Reserved Forests, 1891-92.

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1891. Acres.	Area on 1st April 1891. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 1st March 1892. Acres.	Area on 1st March 1892. Equivalent in square miles.	Remarks.
Ajmere-Merwara		Ajmere	Mohwabir and Madar Hill	2,736	4	...	...	2,736	4	
			Makerwali-Hokran	2,675	4	...	...	2,675	4	
			Nagpahar	2,479	4	...	...	2,479	4	
			Taragarh Valley	1,226	2	...	...	1,226	2	
			Srinagar	3,623	6	...	...	3,623	6	
			Danta	1,580	3	...	151(*a*)	1,429	3	(*a*) Transferred from Danta to Rajosi Reserve.
			Rajosi	1,152	2	151(*a*)	...	1,303	2	(*b*) Measurement of Forest areas not shown in the maps.
			Rajgarh	2,199	3	...	...	2,199	3	(*c*) Revision of areas.
			Total	17,670	28	151	151	17,670	28	
		Merwara	Dilwara and Changgate birs	281	1	...	...	281	1	
			Jalia and Balad	50				50		
			Chang	2,947	5	...	...	2,947	5	
			Borwar-Kotra and Siliberi	4,660	7	...	3(*c*)	4,657	7	
			Sheopura	2,771	4	120(*b*)	105(*c*)	2,786	4	
			Auspahar	1,282	2	357(*b*)	...	1,639	3	
			Beliawas	3,336	5	...	...	3,336	5	
			Amner	4,654	7	199(*c*)	739(*c*)	4,114	6	
			Banjari-Mandlan	4731	8	...	...	4,731	8	
			Todgarh	34,024	53	25(*c*)	...	34,049	53	
			Dewair	12,968	20	...	...	12,968	20	
			Total	71,704	112	701	847	71,558	112	
			GRAND TOTAL	89,374	140	852	998	89,228	140	

Form No. 50.

Register of Breaches of Forest Rules during 1891-92.

Forest Division.		Cases pending from 1890-91.	New Cases of the Year.					Total Cases.	Disposed of during the year.						Cases pending at close of year.
			Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission, or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Ajmere-Merwara	A	...	1	76	6	3	86	86	83	268	3	3	86	271	...
	B	...	...	42	11	...	53	53	53	166	...	...	53	166	...
Grand Total	A	...	1	76	6	3	86	86	83	268	3	3	86	271	...
	B	...	...	42	11	...	53	53	53	166	...	...	53	166	...
	C	...	...	...	...	...	...	...	...	...	...	...	...	...	...

N.B.—A. Means cases taken into Court.
B. „ cases disposed of under section 67 of Indian Forest Act, 1878.
C. „ undetected cases.

Form No. 51.

Area of Forest Tracts protected from Fire during the dry Season 1892.

Division.	Forest Tracts.	Year in which protection commenced.	Area actually protected up to 15th June 1891.	During dry season of 1891.			Cost during the season.	Remarks.
				Area attempted to be protected.	Failures.	Actually protected.		
							R	
	Areas protected by special measures.							
Ajmere-Meerwara	Nagpahar	1880	2,479	2,479	...	2,479	5	
	Taragarh Valley	1874	1,226	1,226	...	1,226	5	
	Rajosi	1880	1,152	...	...	...	...	
	Danta	1882	1,580	1,429	...	1,429	5	
	Rajgarh	1884	2,199	...	...	...	...	
	Chang	1881	2,947	...	...	...	...	
	Sheopura	1882	2,771	...	...	...	...	
	Beliawas	1874	3,336	...	...	...	...	
	Todgarh	1874	34,024	34,049	...	34,049	10	
	Borwar-Kotra	1882	4,137	...	...	...	...	
	Auspahar	1877	1,282	...	...	...	...	
	Dewair	1881	12,968	12,968	...	12,968	20	
	Banjari-Mandlan	1884	4,731	...	...	...	...	
	Amner	1884	4,654	...	...	...	...	
	Total	...	79,486	52,151	...	52,151	45	
	Areas protected without the adoption of special measures.							
Ajmere-Meerwara	Rajosi	1880	...	1,303	...	1,303	...	
	Rajgarh	1884	...	2,199	...	2,199	...	
	Chang	1881	...	2,947	...	2,947	...	
	Sheopura	1882	...	2,786	...	2,786	...	
	Beliawas	1874	...	3,336	...	3,336	...	
	Borwar-Kotra	1882	...	4,137	...	4,137	...	
	Auspahar	1877	...	1,639	...	1,639	...	
	Banjari-Mandlan	1884	...	4,731	...	4,731	...	
	Amner	1884	...	4,114	...	4,114	...	
	Mohwabir and Madar Hill	1876	2,736	2,736	...	2,736	...	
	Srinagar	1876	3,623	3,623	...	3,623	...	
	Makerwali-Hokran	1884	2,675	2,675	...	2,675	...	
	Dilwara and Chang-Gate Birs	1876	281	281	...	281	...	
	Siliberi	1884	523	520	...	520	...	
	Jalia and Balad	1891	50	50	...	50	...	
	Total	...	9,888	37,077	...	37,077	...	
	GRAND TOTAL	...	89,374	89,228	...	89,228	45	

Form No. 52.

Area of Plantations, 1891-92.

Division.	Name of Plantation.	Area in Acres.				Receipts.	Charges.	Remarks.
		On 1st April 1891.	Added during the year.	Excluded during the year.	Area on 31st March 1892.			
	Areas taken up under the Regulation.						R	
Ajmere-Merwara	Mohwabir and Madar Hill	87	...	...	87	...	...	
	Nagpahar	25	4	...	29	...	9	
	Taragarh Valley	66	...	...	66	...	...	
	Srinagar	31	4	...	35	...	...	
	Danta	34	10	4	40	...	177	
	Rajgarh	5	...	...	5	...	...	
	Makerwali-Hokran	59	20	12	67	...	148	
	Dilwara and Chang-Gate Birs	80	...	...	80	...	...	
	Chang	29	5	...	34	...	14	
	Borwar-Kotra	55	48	32	71	...	36	
	Sheopura	30	...	...	30	...	...	
	Beliawas	12	...	...	12	...	...	
	Amner	...	2	2	...	...	...	
	Dewair	47	4	4	47	...	...	
	Banjari-Mandlan	3	4	4	3	...	...	
	Jalia and Balad	...	7	2	5	...	129	
	Todgarh	...	2	2	...	...	...	
	Areas not taken up under the Regulation.							
	Shikast Masjid	6	...	...	6	...	...	
	Parade Plantation	8	...	...	8	...	...	
	Nurseries.					R		
	Pushkar Nursery	4	...	...	4	352	284	
	Bir „	4	...	...	4	11	87	
	Sendra „	1	...	...	1	10	319	
	Total	586	110	62	634	373	1,203	

Form No. 54.

Outturn (in cubic feet, solid) of timber and fuel during the year 1891-92 and Agency of Exploitation.

Division.	Timber in the rough; Logs.					Timber in the rough; Poles.					Sawn or squared Timber.					Miscellaneous.					Fuel.					Total.
	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Government.	Purchasers.	Free Grantees.	Right-holders.	Total.	Outturn.
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
											I.—*Reserved Forests.*															
Ajmere-Merwara .	...	3,055	105	...	3,160	...	1,953	1,767	...	3,720	...	...	...	...	...	...	102	320	...	422	...	1,18,698	72,400	...	1,91,098	1,98,400
Total .	...	3,055	105	...	3,160	...	1,953	1,767	...	3,720	...	...	...	...	...	...	102	320	...	422	...	1,18,698	72,400	...	1,91,098	1,98,400
											II.—Protected Forests.															
											Nil.															
											III.—Unclassed Forests.															
											Nil.															

Form No. 55.

Outturn of Minor Forest Produce during the year 1891-92.

Division.	Description of Produce.	Produce removed or utilized.										Remarks.
		By Government Agency.		By Purchasers.		By Free grants.		By Right-holders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
			R		R		R		R		R	
Ajmere-Merwara	Bamboos (No.)	...	...	8,133	209	...	...	...	...	8,133	209	
	Fodder grass (maunds)	...	...	2,284	1,371	394	394	...	...	2,678	1,765	
	Ditto (head loads)	...	...	13,296	501	323,840	40,480	...	...	3,37,136	40,981	
	Ditto (auction)	...	...	...	3,087	...	...	...	...	...	3,087	
	Munj grass (do.)	...	...	...	16	...	...	...	...	...	16	
	Grazing dues, 6 months (cattle)	...	...	2,411	848	330	52	45,248	7,945	47,989	8,845	
	Ditto 8 „ (acres)	...	...	...	...	1,016	254	...	...	1,016	254	
	Ditto 12 „ (cattle)	...	...	...	...	915	686	...	...	915	686	
	Ditto Dewair Pass	...	...	...	279	...	...	...	...	...	279	
	Fruits	...	...	...	281	...	...	...	...	...	281	
	Dhak leaves	...	...	...	272	...	...	...	...	...	272	
	Saler „	...	...	...	634	...	...	...	...	...	634	
	Honey and wax	...	...	...	68	...	...	...	...	...	68	
	Babul pods	...	...	...	70	...	...	...	...	...	70	
	Miscellaneous	...	...	...	5	...	...	...	...	...	5	
	Total	...	...	...	7,641	...	41,866	...	7,945	...	57,452	

Form No. 58.

Summary of Revenue of the different Divisions during 1891-92.

RECEIPTS.

	£	a.	p.
I.—Timber and other produce removed from the Forests by Government agency—			
a Timber	...		
b. Firewood and charcoal	...		
c. Bamboos	...		
d. Sandal-wood	...		
e. Grass and other minor produce	...		
II.—Timber and other produce removed from the Forests by consumers or purchasers—			
a. Timber	185	13	6
b. Firewood and charcoal	2,887	14	3
c. Bamboos	208	12	0
d. Grazing and fodder grass	14,045	15	0
e. Other minor produce	1,329	9	6
III.—Drift and waif wood and confiscated forest produce	...		
IV.—Revenue from Forests not managed by Government—			
a. Duty on foreign timber and other forest produce	...		
b. Revenue from shared and private forests	...		
V.—Miscellaneous—			
a. Fines and forfeitures	650	5	7
b. Refunds	2	10	8
c. Other sources	487	9	0
Total Receipts	19,798	9	6

Summary of Expenditure of the different Divisions during 1891-92.

A.—CONSERVANCY AND WORKS.

I.—Timber and other produce removed from the Forests by Government Agency—	
a. Timber	...
b. Firewood and charcoal	...
c. Bamboos	...
d. Sandal-wood	...
e. Grass and other minor produce	...
II.—Timber and other produce removed from the Forests by Consumers or Purchasers	...
III.—Drift and waif wood and confiscated Forest Produce	...
IV.—Revenue from Forests not managed by Government—	
a. Duty on foreign timber and other forest produce	...
b. Revenue from shared and private forests	...
V.—Rent of leased Forests and payments to Shareholders in Forests managed by Government	...

	R	a.	p.
VI.—Live Stock, Stores, Tools and Plant—			
a. Purchase of cattle	90	0	0
b. Feed and keep of cattle	75	1	0
c. Purchase of stores, tools and plant	36	13	0
VII.—Communications and Buildings—			
a. Roads and bridges	124	0	0
b. Buildings	79	5	0
c. Other works	301	4	9
VIII.—Demarcation, improvement and extension of Forests—			
a. Demarcation	318	2	0
b. Compensation for land and rights	...		
c. Surveys and working plans	...		
d. Sowing and planting	1,720	4	0
e. Protection from fire	45	0	0
f. Other works	125	7	6
IX.—Miscellaneous—			
a. Refunds	...		
b. Law charges	...		
c. Other charges	6	3	0
Total A.—Conservancy and Works	2,921	8	3

B.—ESTABLISHMENT.

I.—Salaries—			
a. Conservators	...		
b. Superior officers	2,754	13	5
c. Subordinate forest and depôt establishments	4,773	11	4
d. Office establishments	1,136	0	0
e. Deputation and special allowances	224	3	1
II.—Travelling Allowances—			
a. Conservators	...		
b. Superior officers	1,203	3	4
c. Subordinate forest and depôt establishments	393	11	3
d. Office establishments	47	3	6
III.—Contingencies—			
a. Stationery	14	2	0
b. Carriage of tents and records	112	7	8
c. Rents, rates and taxes	180	0	0
d. Pay of police guards	...		
e. Official postage	55	0	0
f. Sundries	169	15	7
Total B.—Establishment	11,064	7	2
GRAND TOTAL OF EXPENDITURE	13,985	15	5

Calcutta,
The 27th April 1892.

I. C. BOSE,
Assistant Comptroller General (Forests).

Form No. 59.

Dr. *Account Current for the year 1891-92.* *Cr.*

	R	a.	p.	R	a.	p.		R	a.	p.	R	a.	p.
To Cash Balance	...			8	7	10	By Expenditure as per Annual Summary Form No. 58	...			13,985	15	5
„ VIII.—Assessed Taxes—							„ Deposits						
Income Tax—Deductions from salaries	...			110	1	3	„ Forest Cash Remittances—Local—						
„ Revenue as per Annual Summary, Form No. 58	...			19,798	9	6	Remittances to Treasuries	17,098	9	6			
„ Service Funds—							Inter-Divisional Transfers	...			...		
Civil Fund—Ordinary, Bengal	...			...							17,098	9	6
„ Additional, Bengal	...			...			„ Advances Recoverable	...			236	3	8
Military Fund—Bengal	...			...			„ Suspense	...			10	0	0
„ „ Madras	...			...			„ Account Current (other Governments)—						
„ Orphan Fund—Bengal	...			...			Remittances to the Government of—	...			...		
Uncovenanted Service Family Pension Fund—Bengal	...			...			„ Inter-Departmental Transfers—						
General Family Pension Fund	...			...			Public Works Department	...			...		
Hindu Family Annuity Fund	...			...			Military Department, Bombay	2,700	0	0	...		
„ Deposits	...			...			Civil Department	...			...		
„ Forest Cash Remittances—Local—											2,700	0	0
Forest cheques drawn	13,880	0	0	...			„ Cash Balance	...			19	12	5
Inter-Divisional Transfers	...			...									
				13,880	0	0							
„ Advances recoverable	...			235	14	5							
„ Suspense	...			...									
„ Account Current (other Governments)—													
Remittances from Government of—	...			...									
„ Inter-Departmental Transfers—													
Public Works Department—	...			...									
Military Department	...			...									
Civil Department—													
Jail	...			...									
Mathematical Instrument Department	17	8	0	...									
Miscellaneous	...			...									
				17	8	0							
TOTAL	...			34,050	9	0	TOTAL	...			34,050	9	0

CALCUTTA,
The 27th April 1892.

I. C. BOSE,
Assistant Comptroller General (Forests).

Form No 61.

Outstandings and Liabilities on account of Contractors and Disbursers for 1891-92.

Division.	Department Debtor.			Department Creditor.			Balance due		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings.)	By Department (Liabilities.)	
	℟ a. p.	℟ a. p.	℟ a. p.	℟ a. p.	℟ a. p.	℟ a. p.	℟ a. p.	℟ a. p.	
Ajmere-Merwara .	...	235 14 5	235 14 5	0 0 11	236 3 8	236 4 7	0 6 2	...	

I. C. BOSE,

Assistant Comptroller General (Forests).

Form No. 62.

Financial results of the year 1891-92.

Division.	Timber and other produce removed from the forests by Government Agency.		Other revenue.		Formation, protection and improvement of forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts	Charges.	Charges	Receipts.	Charges.	
	℟	℟	℟	℟	℟	℟	℟	
Ajmere-Merwara .	...	...	19,799	4,432	9,554	19,799	13,986	

APPENDIX .

Statement showing rainfall registered during the year 1891.

Months.	Satpura.				Madar Hill.		Bajrangarh.		Nagpahar.				Danta.				Rajgarh.				Dilwara Bir.				Remarks.
	Inside Forest.		Outside Forest.						Inside Forest.		Outside Forest.		Inside Forest.		Outside Forest.		Inside Forest.		Outside Forest.		Inside Forest.		Outside Forest.		
	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	Inches.	Ct.	
January 1891	...	90	...	80	1	9	...	82	...	81	...	70	...	60	...	52	..	69	...	70	...	69	...	62	
February ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
March ,, ...	1	35	1	29	...	89	...	83	1	39	1	32	...	86	...	81	...	56	...	58	...	56	...	51	
April ,, ...	...	37	...	27	...	14	...	9	...	4	...	15	...	11	...	10	...	10	...	8	...	32	...	29	
May ,, ...	...	65	...	62	...	45	...	21	...	52	...	29	...	31	...	30	1	1	1	1	...	...	...	.	
June ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	81	...	77	...	23	...	24	
July ,, ...	3	63	3	40	3	98	3	2	5	83	3	54	4	47	4	39	3	17	2	88	4	67	4	29	
August ,, ...	1	10	...	90	...	89	...	69	...	93	...	46	...	61	...	60	1	24	1	8	1	15	1	8	
September ,, ...	1	65	1	47	...	70	...	94	...	69	...	33	1	34	1	22	1	48	1	42	...	59	...	49	
October ,, ...	...	...	...	...	...	7	...	5	...	21	...	4	...	56	...	54	...	27	...	27	...	...	...	...	
November ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
December ,, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total .	9	65	8	75	8	21	6	65	10	42	6	83	8	86	8	48	9	33	8	79	8	21	7	52	
Total rainfall of 1890 .	15	27	14	33	17	38	12	2	15	83	11	96	13	80	13	4	14	14	13	77	12	74	11	91	

APPENDIX B.

METEOROLOGICAL OBSERVATIONS (STATION A).

Results of Meteorological Observations conducted at the Ajmere Nursery, 1,640 feet above sea-level. Observatories of the standard pattern.

Cages with instruments 4 feet above ground.

Months.	Dry Maximum.		Dry Minimum.		Daily Means.		Mean vapour tension.						Mean relative Humidity.						Rainfall in inches.
							Under trees.			Outside trees.			Under trees.			Outside trees.			
	Under trees.	Outside trees.	Under trees.	Outside trees.	Under trees.	Outside trees.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	
	Inches.	Inches.	Inches.	Inches	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January 1891	70·9	70·9	40·9	40·8	54·9	55·3	·224	·230	·194	·218	·223	·187	81	44	28	83	42	26	0·95
February ,,	73·7	74·3	44·3	44·4	58·5	59·6	·256	·226	·236	·237	·218	·220	83	37	28	78	34	25	...
March ,,	80·6	81·6	53·8	53 9	67·2	68·0	·314	·355	·349	·323	·340	·336	76	45	37	77	41	34	1·09
April ,,	97·2	98·8	65·2	65·4	82·1	83·4	·381	·343	·340	·364	·337	·342	60	26	31	57	24	20	0·14
May ,,	102·1	103·6	76·0	76·2	88·2	89·5	·502	·451	·406	·502	·464	·429	56	30	22	55	30	22	0·38
June ,,	103·9	105·6	82·3	82·9	90·9	92·4	·603	·569	·533	·621	·574	·553	55	38	26	55	36	26	0·10
July ,,	94·3	96·2	78·2	79·2	84·5	86·1	·737	·767	·753	·741	·751	·717	76	64	49	75	60	47	3·71
August ,,	91·3	92·9	74·8	75·5	81·2	82·7	·735	·732	·711	·769	·736	·711	87	67	53	87	65	50	1·34
September ,,	92·5	94·0	75·2	75·7	81·8	83·6	·704	·700	·684	·706	·700	·686	81	60	49	80	57	46	1·02
October ,,	93·2	94·7	62·7	63 3	76·5	74·5	·400	·479	·465	·412	·475	·461	67	41	32	69	38	31	0·09
November ,,	85·4	87·0	48·8	49·3	66·4	67·6	·235	·332	·334	·224	·295	·288	67	34	29	63	29	24	...
December ,,	79·2	80·2	42·8	43·6	59·7	60·7	·206	·273	·244	·206	·250	·235	74	38	26	72	33	24	...
Total	1,064·3	1,079 8	745·0	750·2	891·9	903·4	5·297	5·457	5·249	5·323	5·363	5·165	863	524	410	851	489	375	8·82
Average	88·7	90·0	62·1	62·5	74·3	75·3	·441	·455	·437	·444	·455	·430	72	44	34	71	41	31	...
Total for 1890	729·5	736·2	976·9	1,079·5	884·1	8·953	5·626	5·963	5·885	5·669	6·034	5·905	950	574	468	935	552	451	14·63
Average	60·8	61·3	81·4	89·9	73·7	74·6	·469	·497	·499	·472	·503	·492	79	48	39	78	46	38	...

APPENDIX C.

METEOROLOGICAL OBSERVATIONS (STATION B).

Results of Meteorological observations conducted at the Mokwabir Forest Reserve (Ajmere District) about 1,680 feet above sea-level. Observatories of the Dehra Dun Forest School Pattern. Cages with instruments 4 feet above ground.

Months.	Dry maximum		Dry minimum.		Daily means.		Mean vapour tension.						Mean relative humidity.						Rain fall.	
							Inside Forest.			Outside Forest.			Inside Forest.			Outside Forest.				
	Inside Forest.	Outside Forests.	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	From minimum.	At 10 hours.	At 16 hours.	From minimum.	At 10 hours.	At 16 hours.	From minimum.	At 10 hours.	At 16 hours.	From minimum.	At 10 hours.	At 16 hours.	Inside Forest.	Outside Forest.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January 1891	72·9	71·9	38·3	42·7	54·1	55·7	·201	·221	·191	·219	·240	·201	83	42	26	77	46	29	0·94	0·79
February „	75·5	74·5	42·7	46·8	58·5	59·3	·221	·229	·220	·252	·241	·230	82	36	27	75	41	28	...	...
March „	83·5	82·1	51·5	55·3	67·1	68·2	·297	·381	·378	·322	·365	·342	78	45	38	73	46	35	1·15	1·11
April „	100·2	97·9	61·0	67·6	81·6	83·1	·352	·337	·375	·381	·355	·351	62	23	22	54	27	21	0·11	0·09
May „	104·2	101·3	73·5	76·4	88·3	78·8	·492	·480	·459	·515	·452	·414	59	30	24	57	30	22	0·25	0·23
June „	105·9	103·8	81·2	81·2	91·1	90·6	·626	·574	·571	·587	·535	·529	59	37	27	54	36	26	0·05	0·03
July „	96·6	94·6	77·8	78·6	85·1	84·6	·611	·752	·729	·709	·738	·708	65	60	47	73	62	48	4·13	3·65
August „	93·1	91·2	74·3	74·7	81·5	81·3	·650	·800	·778	·720	·737	·712	76	70	56	83	67	52	1·56	1·75
September „	93·8	92·6	74·7	75·3	82·1	82·1	·555	·709	·691	·664	·699	·677	64	59	48	76	60	48	1·39	1·44
October „	95·1	93·2	61·1	63·9	75·9	76·8	·379	·482	·498	·400	·475	·467	68	39	34	68	40	32	0·12	0 07
November „	87·6	84·8	47·1	52·9	66·0	68·2	·177	·336	·331	·239	·311	·296	52	34	28	59	32	25	...	...
December „	81·0	79·4	41·5	46·7	59·6	61·4	·157	·261	·248	·209	·256	·231	60	35	26	64	36	25	...	...
Total	1,089·4	1,067·3	724·7	762·1	890·9	890·1	4·718	5·562	5·469	·5217	5·404	5·158	808	510	403	813	523	391	9·70	9·16
Average	90·8	87·3	60·4	63·5	74 2	74·2	·393	·464	·456	·435	·450	·430	67	42	34	68	45	33	...	...
Total for 1890	717·1	748·3	1093·1	1082·1	882·8	893·1	5·536	6·328	6·396	5·665	6·043	5·949	959	591	487	913	579	472	16·34	14·83
Average	59·8	62·4	91·1	90·1	73·6	74·4	·461	·327	·533	·472	·503	·496	80	49	41	76	48	39	...	...

APPENDIX D.

METEOROLOGICAL OBSERVATIONS (STATION C).

Results of Meteorological Observations conducted at Rawli Forest Reserve (Todgarh Block), about 2,800 feet above sea level. Observatories of the Dehra Dun Forest School Pattern. Cages with instruments 4 feet above ground.

Months.	Dry maximum.		Dry minimum.		Daily means.		Mean vapour tension.						Mean relative Humidity.						Rain fall.	
							Inside Forest.			Outside Forest.			Inside Forest.			Outside Forest.				
	Inside Forest.	Outside Forest	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	From minima.	At 10 hours.	At 16 hours	From minima.	At 10 hours.	At 16 hours.	From minima.	At 10 hours	At 16 hours.	From minima.	At 10 hours.	At 16 hours.	Inside Forest.	Outside Forest.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January 1891	75·2	75·6	44·6	45·7	59 3	59·9	·194	·224	·163	·207	·242	·185	63	35	21	67	38	23	0·50	0·61
February „	77·2	76·8	47·2	46·3	61·2	61·1	·213	·239	·158	·207	·257	·108	62	36	17	63	39	20	...	...
March „	84·8	83·7	55·0	55·2	68·9	68 9	·269	·267	·190	·278	·288	·228	62	32	18	64	36	22	0·30	0·22
April „	102·6	96·9	69 9	69·7	85·3	83·1	·387	·351	·289	·377	·387	·334	52	25	15	51	30	20	...	..
May „	105·4	103·0	78·3	77·6	90·2	88·6	·487	·441	·407	·424	·466	·424	51	29	20	46	32	22	0·08	0·08
June „	103 6	102 4	79·3	79·1	88·2	87·6	·637	·685	·609	·607	·700	·627	64	51	31	61	54	33	...	.
July „	94·6	93·3	74 6	75·4	82 8	82·2	·694	·724	·664	·666	·741	·650	79	63	45	76	67	50	8·74	9 99
August „	92·1	89 8	74·0	73·2	80·5	79·3	·720	·711	·688	·684	·727	·701	87	63	51	83	71	54	1·21	1·07
September „	96·4	92·6	76·0	75·3	82·7	82·1	·743	·700	·678	·664	·699	·677	83	59	44	76	60	48	0·74	0·70
October „	97·4	95·5	65·3	64·4	79·0	77·5	·427	·418	·392	·395	·453	·408	67	33	25	65	39	26	0·04	.
November „	93 8	92 2	54·6	53·6	71·7	70·6	·263	·342	·289	·231	·361	·306	62	32	20	57	35	22		...
December „	86·1	84·8	52·4	51·4	66 9	66·3	·223	·206	·162	·198	·219	·163	54	24	14	53	26	15		.
Total	1,109·2	10,86 6	771·2	766·9	916·7	907·2	5·257	5·308	4·689	4·908	5·540	5·411	786	482	321	762	527	355	11·61	12·67
Average	92·4	90·5	64·3	63 9	76·4	75·6	·439	·442	·391	·409	·462	·451	65	40	27	64	44	30	...	.
Total for 1890	714·2	725·2	10,88·0	10,82 0	890·3	892·2	4 274	5·386	5·094	4·335	5·604	5·366	805	517	383	800	528	402	12·84	12·31
Average	59·5	60 4	90·7	90·2	74·2	74·3	·356	·449	·424	·361	·467	·447	67	43	32	67	44	33	.	...

APPENDIX E.

WELL EXPERIMENTS—MOHWABIR RESERVE FOR THE YEAR 1891.

The area of catchment is about 200 acres, and is wooded with scrub jungle.

Dates.	Well No. 1.	Well No. 2.	Well No. 3.	Remarks.
15th March 1891	58·00			Rainfall 1st March 1889 to 1st March 1890 = 25·04 inches.
22nd „ „	59·67			Rainfall, 1st March 1890 to 1st March 1891 = 9·70 inches.
30th „ „	59·75			South-west monsoons commenced on 1st July 1891.
8th April „	60·67			
15th „ „	61·75			
22nd „ „	62·25	Dry.	Dry.	
30th „ „	62·50			
8th May „	63·00			
15th „ „	64·50			
22nd „ „	64·58			
30th „ „	65·00			
8th June „	65·67			
Total	747·34	...	...	
Average	62·28	...	...	
Average of 1890	46·30	38·98	33·69	

Ajmere,
Dated 1st July 1892.

HIRA SINGH,
Extra Asst. Conservator of Forests.

Government of India Central Printing Office, No. 282—28-10-92—175.—Jos. deC.